CONNECTICUT DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6 CTSS REPLACEMENT
CITY OF BRISTOL
STATE PROJECT NO. 0017-0197

Project Description:

This project will replace the aging traffic signal infrastructure at intersections on Route 6 in of Bristol by installing new traffic signal equipment and replacing the existing Computerized Traffic Signal System (CTSS) communications. The project limits on Route 6 are from Brook Street/Mix Street (017-232) to the east to Matthews Street (017-211) to the west. This project will provide full replacement of the traffic signal equipment at seven (7) intersections and partial replacement of the traffic signal equipment at three (3) intersections in addition to new fiber optic interconnect between the intersections.

The traffic signal equipment will be upgraded to the latest standards such as span poles/mast arms, signal head placement, upgraded signage, pre-emption, and detection. Where applicable, pedestrian control features to be upgraded or installed include accessible pedestrian signals (APS) with pushbuttons and countdown signal heads and installation of activated No Turn on Red (NTOR) prohibition signs, consistent with the CTDOT's Complete Streets controlling design criteria. The project also includes construction/ reconstruction of curb ramps, blended transitions, sidewalk extensions, landing areas, detectable warning surfaces, realignment of skewed crosswalk pavement markings and associated adjustments to stop bars and detector locations, review of signal timings (including clearance intervals, pedestrian timings, and coordination information where applicable), evaluation of any existing "When Flashing Stop Ahead" signs, crosswalk and transit stop illumination, bus stop pads at transit stops, and potential guide rail revisions in conjunction with the installation of new mast arms, span poles, or pedestals. All work should attempt to be within the limits of the existing right-of-way (ROW). However, construction and/or permanent easements may be needed for signal appurtenances and/or sidewalk ramps. New sidewalk may be installed at some intersections.

Purpose and Need Statement:

The purpose of this project is to replace the aging traffic signal infrastructure along the Route 6 corridor in of Bristol, as needed for a state of good repair, by replacing the existing Computerized Traffic Signal System (CTSS). The replacement of the CTSS communications system will establish reliable fiber optic communication connections between the signalized intersections.

New underground fiber optic cable will be used for communications between intersections within the project area. No overhead interconnect with mountings to utility poles will be permitted. Wireless systems will be utilized for communications to the CTDOT's Administration building and will allow for the implementation of advanced technologies to monitor traffic and reduce travel times.

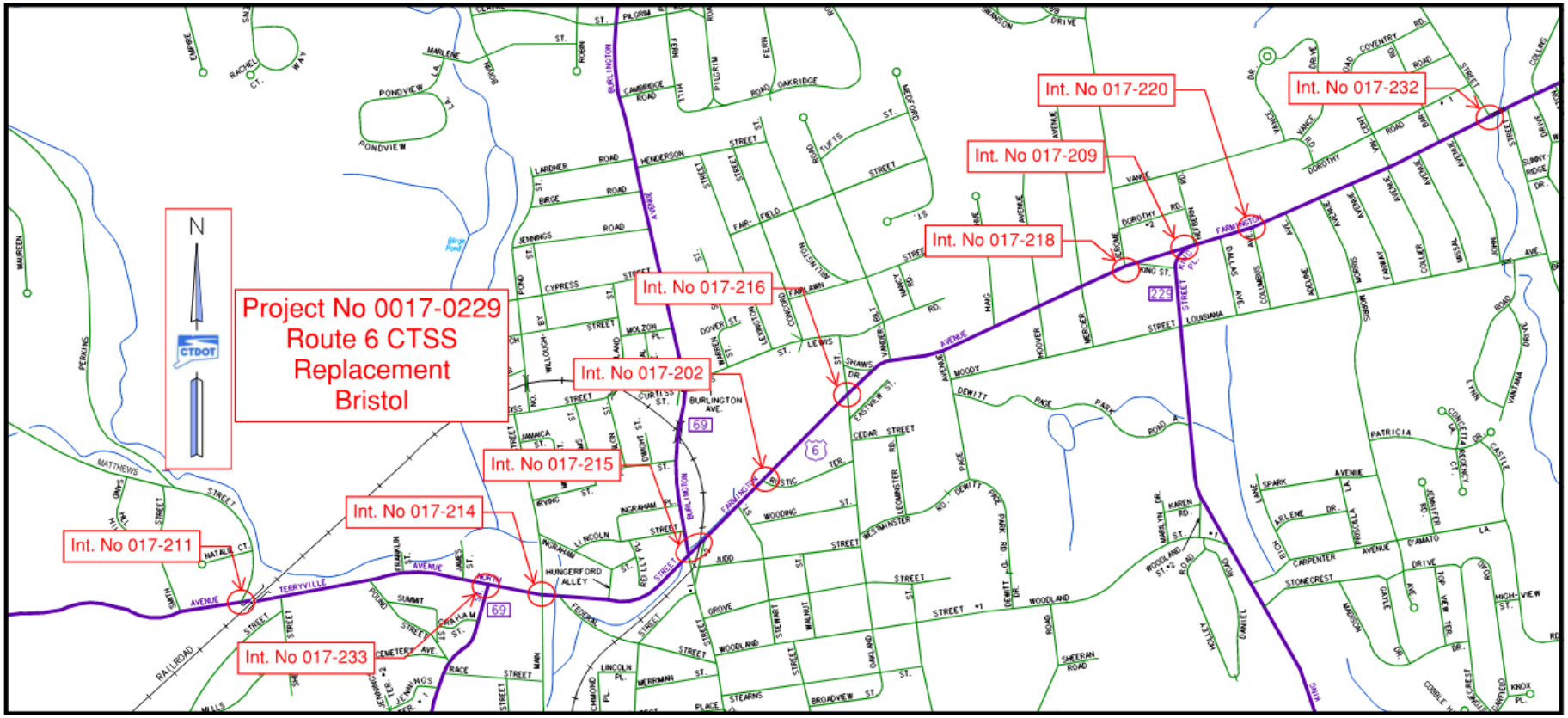
The project will consist of the following 10 locations:

Full Upgrades

Town/City	Int. #	Description
Bristol	017-209	US Route 6 (Farmington Avenue) at Route 229 (King St.)/Shopping Center Driveway
Bristol	017-211	US Route 6 (Terryville Avenue) at Matthews Street
Bristol	017-214	US Route 6 (North Street) at North Main Street
Bristol	017-218	US Route 6 (Farmington Avenue) at Jerome Ave/Yankee Harley-Davidson Driveway
Bristol	017-220	US Route 6 (Farmington Avenue) at Columbus Avenue/Bristol Plaza Driveway
Bristol	017-232	US Route 6 (Farmington Avenue) at Brook Street/Mix Street
Bristol	017-233	US Route 6 (North Street) at Route 69 (West Street)

Partial Upgrades

Town/City	Int. #	Description
Bristol	017-202	US Route 6 (Farmington Avenue) at Rustic Terrace/Bristol Commons Driveway
Bristol	017-215	US Route 6 (Farmington Avenue) at Maple Street/Burlington Avenue (Route 69)
Bristol	017-216	US Route 6 (Farmington Avenue) at Oakland Street


Project No 0017-0229
Route 6 CTSS
Replacement
Bristol
Int. No 017-211
Int. No 017-214
Int. No 017-215
Int. No 017-216
Int. No 017-202
Int. No 017-233
Int. No 017-218
Int. No 017-209
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Int. No 017-232
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